## AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

## LISTING OF CLAIMS

1. (Currently Amended) A container designing system that uses using a computer to design for designing a shape of a hollow container, comprising:

a parametric <u>input module</u> <del>inputting means</del> for inputting a parametrically defined shape condition;

a storage module storing means for storing said shape condition;

a solid model <u>definition module</u> <u>defining means</u> for defining a threedimensional outer shape of said hollow container as a solid model <u>that is at least</u> <u>partially</u> filled <del>up</del> with contents on the basis of said shape condition; and

a solid model <u>editor module</u> <u>editing means</u> for subjecting said solid model to a secondary processing.

2. (Original) A container designing system as set forth in claim 1, wherein said solid model is subjected to a secondary processing after an outer shape of said hollow container is defined as a solid model.

- 3. (Currently Amended) A container designing system as set forth in claim 1, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a Boolean operation for altering a shape upon calculating one of a logical sum (OR), a logical difference (XOR) or a logical product (AND) of two shapes.
- 4. (Currently Amended) A container designing system as set forth in claim 1, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a fillet operation for smoothly rounding an intersecting portion of one plane with the other plane.
- 5. (Currently Amended) A container designing system as set forth in claim 1, wherein said solid model <u>editor module</u> <u>editing means</u> subjects said solid model to a secondary processing <u>and wherein said secondary processing includes</u> by using a deformable operation for altering a plane such that <u>one of</u> a positive load or a negative load is applied to the plane.

- 6. (Currently Amended) A container designing system as set forth in claim 1, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a spiral operation for generating a continuous spiral rugged shape on an exterior surface of said hollow container that protrudes a distance from said exterior surface in an arbitrary range of an axial direction.
- 7. (Currently Amended) A container designing system as set forth in claim 1, further comprising a capacity <u>modulation module</u> <u>modulating means</u> for performing a shape modulation upon said outer shape in order that a container capacity after a shape modulation has a capacity determined by said shape condition.
- 8. (Currently Amended) A container designing system as set forth in claim 1, wherein a shape of a finish portion of said hollow container remains fixed when said outer shape is subjected to a secondary processing. it is possible to subject said outer shape to a secondary processing under the condition that a shape of a finish portion of said hollow container is fixed.
- 9. (Currently Amended) A container designing system as set forth in claim 7, wherein a shape of a finish portion of said hollow container remains fixed when said shape modulation is performed on said outer shape. It is possible to perform said shape modulation upon said outer shape under the condition that a shape of a finish portion of said hollow container is fixed.

- 10. (Currently Amended) A container designing method that uses using a computer to design for designing a shape of a hollow container, wherein a parametrically defined shape condition is inputted and a three-dimensional outer shape of said hollow container is defined as a solid model that is at least partially filled up with contents on the basis of said shape condition and wherein, after that, said solid model is subjected to a secondary processing.
- 11. (Currently Amended) A container designing method as set forth in claim 10, wherein said solid model is subjected to a secondary processing that comprises by using a Boolean operation for altering a shape upon calculating one of a logical sum (OR), a logical difference (XOR) or a logical product (AND) of two shapes.
- 12. (Currently Amended) A container designing method as set forth in claim 10, wherein said solid model is subjected to a secondary processing that comprises by using a fillet operation for smoothly rounding an intersecting portion of one plane with the other plane.
- 13. (Currently Amended) A container designing method as set forth in claim 10, wherein said solid model is subjected to a secondary processing that comprises by using a deformable operation for altering a plane such that one of a positive load or a negative load is applied to the plane.

- 14. (Currently Amended) A container designing method as set forth in claim 10, wherein said solid model is subjected to a secondary processing that comprises by using a spiral operation for generating a continuous spiral rugged shape on an exterior surface of said hollow container that protrudes a distance from said exterior surface in an arbitrary range of an axial direction.
- 15. (Original) A container designing method as set forth in claim 10, wherein a shape modulation upon said outer shape is performed in order that a container capacity after a shape modulation has a capacity determined by said shape condition.
- 16. (Currently Amended) A container designing method as set forth in claim 10, wherein a shape of a finish portion of said hollow container remains fixed when said outer shape is subjected to a secondary processing. it is possible to subject said outer shape to a secondary processing under the condition that a shape of a finish portion of said hollow container is fixed.
- 17. (Currently Amended) A container designing method as set forth in claim 15, wherein a shape of a finish portion of said hollow container remains fixed when said shape modulation is performed on said outer shape. it is possible to perform said shape modulation upon said outer shape under the condition that a shape of a finish portion of said hollow container is fixed.

18. (Currently Amended) A container designing system, comprising: program for carrying out by a computer:

a computer-readable medium that is encoded with a container designing program, wherein the container designing program includes:

a parametric <u>input module</u> <del>inputting means</del> for inputting a parametrically defined shape condition;

a storage module storing means for storing said shape condition;

a solid model <u>definition module</u> <del>defining means</del> for defining a threedimensional outer shape of a hollow container as a solid model <u>that is at least partially</u> filled <del>up</del> with contents on the basis of said shape condition; and

a solid model <u>editor module</u> <del>editing means</del> for subjecting said solid model to a secondary processing[[.]]; and

a computer that communicates with said computer-readable medium and that executes said container designing program.

19. (Currently Amended) A container designing system program as set forth in claim 18, wherein said solid model is subjected to a secondary processing after an outer shape of said hollow container is defined as a solid model.

- 20. (Currently Amended) A container designing system program as set forth in claim 18, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a Boolean operation for altering a shape upon calculating one of a logical sum (OR), a logical difference (XOR) or a logical product (AND) of two shapes.
- 21. (Currently Amended) A container designing system program as set forth in claim 18, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a fillet operation for smoothly rounding an intersecting portion of one plane with the other plane.
- 22. (Currently Amended) A container designing system program as set forth in claim 18, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a deformable operation for altering a plane such that one of a positive load or a negative load is applied to the plane.

- 23. (Currently Amended) A container designing system program as set forth in claim 18, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a spiral operation for generating a continuous spiral rugged shape on an exterior surface of said hollow container that protrudes a distance from said exterior surface in an arbitrary range of an axial direction.
- 24. (Currently Amended) A container designing system program as set forth in claim 18, further comprising wherein a capacity modulation module modulating means is comprised for performing a shape modulation upon said outer shape in order that a container capacity after a shape modulation has a capacity determined by said shape condition.
- 25. (Currently Amended) A container designing system program as set forth in claim 18, wherein a shape of a finish portion of said hollow container remains fixed when said outer shape is subjected to a secondary processing. it is possible to subject said outer shape to a secondary processing under the condition that a shape of a finish portion of said hollow container is fixed.

- 26. (Currently Amended) A container designing system program as set forth in claim 24, wherein a shape of a finish portion of said hollow container remains fixed when said shape modulation is performed on said outer shape. it is possible to perform said shape modulation upon said outer shape under the condition that a shape of a finish portion of said hollow container is fixed.
- 27. (Currently Amended) A computer-accessible recording medium that is encoded with recording a container designing program, wherein said container designing program is executed for carrying out by a computer and wherein said container designing program includes:

a parametric <u>input module</u> <del>inputting means</del> for inputting a parametrically defined shape condition;

a storage module storing means for storing said shape condition;

a solid model <u>definition module</u> <u>defining means</u> for defining a threedimensional outer shape of a hollow container as a solid model <u>that is at least partially</u> filled <del>up</del> with contents on the basis of said shape condition; and

a solid model <u>editor module</u> <u>editing means</u> for subjecting said solid model to a secondary processing.

28. (Currently Amended) A computer-accessible recording medium that is encoded with recording a container designing program as set forth in claim 27, wherein said solid model is subjected to a secondary processing after an outer shape of said hollow container is defined as a solid model.

- 29. (Currently Amended) A computer-accessible recording medium that is encoded with recording a container designing program as set forth in claim 27, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a Boolean operation for altering a shape upon calculating one of a logical sum (OR), a logical difference (XOR) or a logical product (AND) of two shapes.
- 30. (Currently Amended) A computer-accessible recording medium that is encoded with recording a container designing program as set forth in claim 27, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a fillet operation for smoothly rounding an intersecting portion of one plane with the other plane.
- 31. (Currently Amended) A computer-accessible recording medium that is encoded with recording a container designing program as set forth in claim 27, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a deformable operation for altering a plane such that one of a positive load or a negative load is applied to the plane.

- 32. (Currently Amended) A computer-accessible recording medium that is encoded with recording a container designing program as set forth in claim 27, wherein said solid model editor module editing means subjects said solid model to a secondary processing and wherein said secondary processing includes by using a spiral operation for generating a continuous spiral rugged shape on an exterior surface on said hollow container that protrudes a distance from said exterior surface in an arbitrary range of an axial direction.
- 33. (Currently Amended) A computer-accessible recording medium that is encoded with recording a container designing program as set forth in claim 27, further comprising wherein a capacity modulation module modulating means is comprised for performing a shape modulation upon said outer shape in order that a container capacity after a shape modulation has a capacity determined by said shape condition.
- 34. (Currently Amended) A computer-accessible recording medium that is encoded with recording a container designing program as set forth in claim 27, wherein a shape of a finish portion of said hollow container remains fixed when said outer shape is subjected to a secondary processing. It is possible to subject said outer shape to a secondary processing under the condition that a shape of a finish portion of said hollow container is fixed.

35. (Currently Amended) A computer-accessible recording medium that is encoded with recording a container designing program as set forth in claim 33, wherein a shape of a finish portion of said hollow container remains fixed when said shape modulation is performed on said outer shape. it is possible to perform said shape modulation upon said outer shape under the condition that a shape of a finish portion of said hollow container is fixed.